

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00677\_11 ~ SP6ES-11L35K-DX-AR6WES-SG.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00677\_11\_M-11L

[TESTLAB] Spectrum Lighting Photometric Lab, VLS-245-981

[MANUFAC] Spectrum Lighting

[ISSUEDATE] 7/27/2018

[UPDATE] 10/10/2018

[LUMCAT] SP6ES-11L35K-DX-AR6WES-SG

[LUMINAIRE] Nom. 6.0" Aperture, LED Wall Wash

[OTHER] Matte white trim, open aperture,

[OTHER] Peened 'kicker' reflector

[OTHER] Any flange finish

[LAMP] N/A

[LAMPCAT] N/A, 3500K CCT

[OTHER] Fully regressed lensed, light emitting surface

[OTHER] Total Luminaire Watts is approximate

[OTHER] CCT Output Multipliers: 4000K X 1.03, 3000K X 0.985

[OTHER] This report prepared by Spectrum Lighting, scaled from 20L

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	979
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	89
Total Luminaire Watts	11
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.86
Spacing Criterion (90-270)	0.84
Spacing Criterion (Diagonal)	0.80
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.50 ft (Diameter)
Luminous Width (90-270)	0.50 ft (Diameter)
Luminous Height	0.00 ft

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00677\_11 ~ SP6ES-11L35K-DX-AR6WES-SG.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	25338	11218	2165
55	24100	5307	603
65	16477	1690	335
75	7361	428	278
85	907	406	415

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : SP-00677\_11 ~ SP6ES-11L35K-DX-AR6WES-SG.IES**

**CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
<b>0.0</b>	1143.848	1143.848	1143.848	1143.848	1143.848	1143.848	1143.848	1143.848	1143.848	1143.848
<b>2.5</b>	1126.858	1123.926	1129.199	1133.145	1142.648	1141.074	1159.440	1149.204	1145.881	1144.835
<b>5.0</b>	1110.081	1106.756	1114.963	1118.297	1133.107	1140.066	1155.914	1149.630	1141.640	1148.392
<b>7.5</b>	1086.586	1083.283	1092.312	1095.954	1113.747	1126.637	1143.823	1127.592	1116.931	1124.945
<b>10.0</b>	1061.246	1054.857	1068.821	1065.627	1090.445	1111.581	1115.471	1098.589	1078.561	1099.255
<b>12.5</b>	1016.663	1008.879	1022.977	1027.999	1049.374	1074.008	1072.871	1037.511	1016.148	1036.218
<b>15.0</b>	968.108	955.937	975.881	974.915	1002.734	1034.701	1006.889	968.790	937.137	971.211
<b>17.5</b>	899.876	884.303	899.291	910.176	925.098	957.860	924.277	865.707	834.605	868.832
<b>20.0</b>	828.969	809.830	821.761	823.455	840.152	879.242	815.959	756.982	716.154	764.223
<b>22.5</b>	755.365	729.403	728.400	723.346	738.143	769.474	692.683	622.760	579.392	630.134
<b>25.0</b>	681.552	654.094	635.919	622.699	633.369	659.334	566.573	486.026	447.593	497.267
<b>27.5</b>	625.400	587.608	551.038	521.782	527.874	544.645	439.129	366.179	320.575	373.524
<b>30.0</b>	569.990	527.836	468.750	427.833	422.304	432.382	333.331	247.388	220.365	257.010
<b>32.5</b>	525.521	477.395	400.572	336.634	331.047	336.827	235.483	171.064	141.164	175.916
<b>35.0</b>	481.159	429.443	335.384	258.329	240.617	246.128	164.277	97.085	89.618	104.575
<b>37.5</b>	438.109	384.304	281.934	183.908	172.762	177.836	100.624	64.417	55.603	68.367
<b>40.0</b>	395.929	343.059	230.467	124.739	106.306	115.147	63.389	34.115	36.341	38.808
<b>42.5</b>	359.951	305.497	184.916	69.086	65.495	72.052	31.683	24.753	24.805	27.681
<b>45.0</b>	327.137	279.632	144.831	42.158	27.958	36.622	21.185	16.420	18.165	18.778
<b>47.5</b>	309.313	262.758	117.363	19.749	18.912	21.525	13.626	13.789	13.549	14.677
<b>50.0</b>	291.509	245.505	92.628	13.809	10.884	10.619	10.872	11.245	10.866	11.303
<b>52.5</b>	273.775	228.018	73.047	9.391	8.423	8.410	8.501	9.050	8.809	9.199
<b>55.0</b>	252.387	202.218	55.576	7.578	6.318	6.645	7.213	7.099	7.316	7.521
<b>57.5</b>	221.108	172.155	41.296	5.882	5.655	5.637	5.955	5.889	5.960	6.448
<b>60.0</b>	189.476	143.011	29.387	4.809	4.854	4.791	4.692	4.711	5.085	5.443
<b>62.5</b>	157.099	114.237	20.384	3.737	3.644	4.167	3.490	3.608	4.292	4.516
<b>65.0</b>	127.145	88.671	13.041	2.704	2.586	3.419	3.106	2.935	3.557	3.722
<b>67.5</b>	101.178	64.102	7.359	1.788	1.860	2.533	2.727	3.035	2.829	3.053
<b>70.0</b>	75.615	45.596	4.210	1.470	1.488	1.982	2.366	2.823	2.093	2.319
<b>72.5</b>	50.415	29.211	2.471	1.255	1.530	1.637	2.087	2.306	1.544	1.551
<b>75.0</b>	34.784	19.170	2.021	1.180	1.316	1.480	1.914	1.485	1.445	1.337
<b>77.5</b>	22.526	11.234	1.511	1.016	1.113	1.301	1.457	0.969	1.262	1.253
<b>80.0</b>	13.439	5.354	0.903	0.865	1.081	1.093	0.995	1.143	0.982	1.198
<b>82.5</b>	5.870	1.887	0.619	0.737	0.609	1.016	0.665	0.980	0.633	0.483
<b>85.0</b>	1.444	0.667	0.646	0.697	0.661	0.687	0.690	0.605	0.513	0.704
<b>87.5</b>	0.756	0.744	0.515	0.636	0.544	0.818	0.667	0.563	0.650	0.584
<b>90.0</b>	0.213	0.618	0.215	0.313	0.430	0.270	0.501	0.276	0.569	0.251

**Vert. Angles**      **Horizontal Angles**

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
<b>0.0</b>	1143.848	1143.848	1143.848	1143.848	1143.848	1143.848	1143.848
<b>2.5</b>	1146.904	1143.358	1145.950	1128.109	1143.053	1127.807	1126.858
<b>5.0</b>	1147.538	1141.129	1139.462	1113.884	1125.833	1109.440	1110.081
<b>7.5</b>	1130.504	1130.183	1126.231	1090.898	1103.610	1087.202	1086.586
<b>10.0</b>	1106.307	1113.999	1105.215	1063.055	1078.241	1056.178	1061.246
<b>12.5</b>	1059.161	1080.297	1074.025	1021.583	1037.065	1011.043	1016.663
<b>15.0</b>	1000.820	1038.062	1028.572	971.978	987.681	957.120	968.108
<b>17.5</b>	914.483	971.912	967.963	904.611	918.074	891.786	899.876
<b>20.0</b>	816.594	896.636	890.779	828.114	840.190	818.926	828.969
<b>22.5</b>	695.981	796.043	799.052	735.519	752.950	738.121	755.365

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00677\_11 ~ SP6ES-11L35K-DX-AR6WES-SG.IES****CANDELA TABULATION - (Cont.)**

25.0	574.725	687.958	700.408	640.503	662.770	662.698	681.552
27.5	452.425	575.404	596.764	541.997	575.416	592.035	625.400
30.0	342.247	461.866	494.008	447.240	488.745	529.997	569.990
32.5	247.965	364.238	391.769	356.863	415.823	474.153	525.521
35.0	170.135	268.970	301.144	274.668	345.203	424.246	481.159
37.5	109.845	198.486	216.083	200.368	285.497	377.830	438.109
40.0	66.419	130.198	149.465	137.374	226.899	334.483	395.929
42.5	38.053	85.682	89.757	83.382	178.280	292.596	359.951
45.0	22.353	42.496	53.605	48.926	130.237	265.339	327.137
47.5	15.838	27.132	24.144	27.063	103.483	243.522	309.313
50.0	11.706	12.568	14.858	16.492	77.207	225.551	291.509
52.5	8.968	10.100	9.911	11.848	59.752	208.685	273.775
55.0	7.222	7.801	8.135	8.916	42.963	182.481	252.387
57.5	5.952	6.826	6.814	6.705	32.217	154.291	221.108
60.0	5.226	5.811	5.826	5.469	22.025	126.604	189.476
62.5	4.704	4.594	4.865	4.549	14.952	98.988	157.099
65.0	3.549	3.502	3.885	3.528	8.699	75.534	127.145
67.5	2.215	2.856	2.932	2.482	5.507	52.724	101.178
70.0	2.122	2.284	2.283	1.815	3.152	38.077	75.615
72.5	2.082	1.827	1.714	1.273	2.208	24.971	50.415
75.0	1.652	1.488	1.293	1.088	1.605	15.299	34.784
77.5	1.198	1.210	1.030	0.854	1.244	8.750	22.526
80.0	0.846	0.980	0.949	0.691	1.214	4.288	13.439
82.5	0.764	0.570	0.906	0.751	0.903	1.893	5.870
85.0	0.710	0.561	0.554	0.875	0.656	0.942	1.444
87.5	0.467	0.663	0.552	0.557	0.630	0.468	0.756
90.0	0.504	0.334	0.410	0.527	0.229	0.565	0.213

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00677\_11 ~ SP6ES-11L35K-DX-AR6WES-SG.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	378.24	N.A.	38.60
0-30	657.68	N.A.	67.20
0-40	826.60	N.A.	84.40
0-60	949.58	N.A.	97.00
0-80	978.12	N.A.	99.90
0-90	979.17	N.A.	100.00
10-90	872.72	N.A.	89.10
20-40	448.36	N.A.	45.80
20-50	525.78	N.A.	53.70
40-70	145.15	N.A.	14.80
60-80	28.54	N.A.	2.90
70-80	6.37	N.A.	0.70
80-90	1.05	N.A.	0.10
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	979.17	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	106.45
10-20	271.79
20-30	279.44
30-40	168.92
40-50	77.42
50-60	45.56
60-70	22.17
70-80	6.37
80-90	1.05
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : SP-00677\_11 ~ SP6ES-11L35K-DX-AR6WES-SG.IES

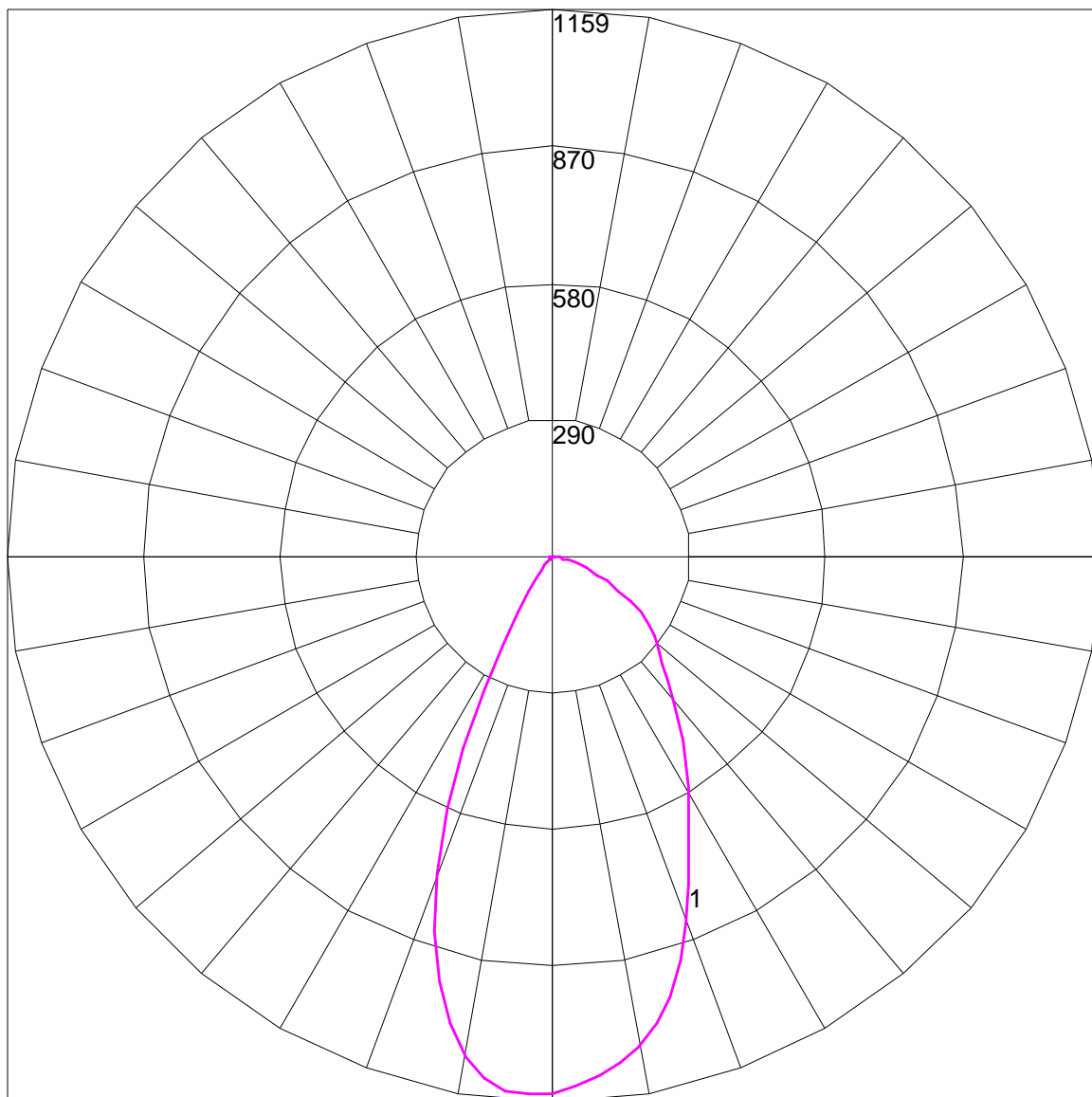
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	93
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	82	80	78
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	72
5	91	82	76	71	89	81	75	71	79	74	70	77	73	69	76	72	69	67
6	86	76	70	66	84	76	70	65	74	69	65	73	68	65	71	67	64	63
7	81	72	65	61	80	71	65	61	70	64	61	69	64	60	67	63	60	58
8	77	68	61	57	76	67	61	57	66	61	57	65	60	56	64	59	56	55
9	74	64	58	54	73	63	57	53	62	57	53	61	57	53	61	56	53	51
10	70	60	54	50	69	60	54	50	59	54	50	58	53	50	58	53	50	49

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : SP-00677\_11 ~ SP6ES-11L35K-DX-AR6WES-SG.IES

POLAR GRAPH



Maximum Candela = 1159.44 Located At Horizontal Angle = 135, Vertical Angle = 2.5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)